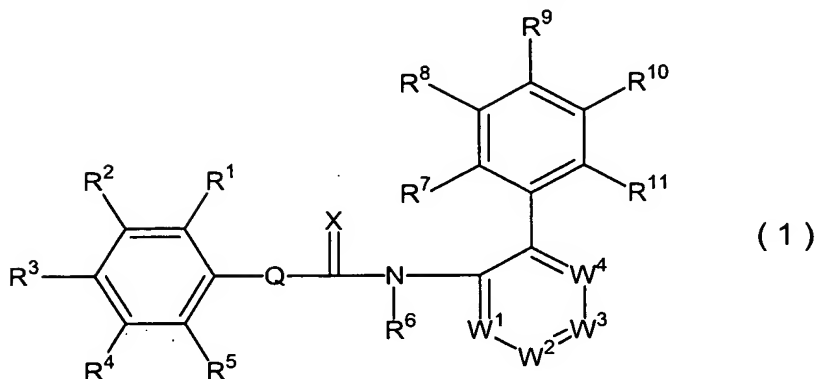


## CLAIMS

1. A phenylpyridine compound represented by the formula (1):



- 5   [, wherein, in the formula,  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^4$  and  $R^5$  independently represent a hydrogen atom, a halogen atom, a C1-C6 alkyl group, a C1-C6 haloalkyl group, a C2-C6 alkenyl group, a C2-C6 haloalkenyl group, a C2-C6 alkynyl group, a C2-C6 haloalkynyl group, a C1-C6 alkoxy group, a C1-C6 haloalkoxy group, a C3-C6 alkenyloxy group, a C3-C6 haloalkenyloxy group, a C3-C6 alkynyloxy group, a C3-C6 haloalkynyloxy group, a C1-C6 alkylthio group, a C1-C6 haloalkylthio group, a C3-C6 cycloalkyl group, a C3-C6 cycloalkoxy group or a cyano group; both of  $R^2$  and  $R^3$  may be combined to represent a trimethylene, a tetramethylene or  $-\text{CH}=\text{CH}-\text{CH}=\text{CH}-$ ;
- 10    $R^6$  represents a hydrogen atom or a C1-C3 alkyl group;
- 15    $R^7$ ,  $R^8$  and  $R^{11}$  independently represent a hydrogen atom, a halogen atom or a C1-C3 alkyl group;
- 20    $R^9$  and  $R^{10}$  independently represent a hydroxyl group, a halogen atom, a C1-C6 alkyl group, a C1-C6 haloalkyl group, a C2-C6 alkenyl group, a C2-C6 haloalkenyl group, a C2-C6 alkynyl group, a C2-C6 haloalkynyl group, a C2-C6 cyanoalkyl group, a C1-C6 alkoxy group, a C1-C6 haloalkoxy group, a C3-C6 alkenyloxy group, a C3-C6 haloalkenyloxy group, a C3-C6 alkynyloxy group, a C3-C6 haloalkynyloxy group, a C2-C6 cyanoalkyloxy group, a C1-C6 alkylthio group, a C1-C6 haloalkylthio group, a C3-C6 cycloalkyl group, a C3-C6 cycloalkoxy
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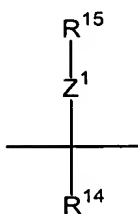
group, a nitro group, a benzyl group or a cyano group;

$W^1-W^2=W^3-W^4$  represents  $N-CR^{21}=CR^{22}-CR^{23}$ ,  $CR^{24}-N=CR^{25}-CR^{26}$ ,  $CR^{27}-CR^{28}=N-CR^{29}$  or  $CR^{30}-CR^{31}=CR^{32}-N$

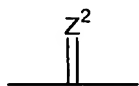
5 {in which  $R^{21}$ ,  $R^{22}$ ,  $R^{23}$ ,  $R^{24}$ ,  $R^{25}$ ,  $R^{26}$ ,  $R^{27}$ ,  $R^{28}$ ,  $R^{29}$ ,  $R^{30}$ ,  $R^{31}$  and  $R^{32}$  independently represent a hydrogen atom, a halogen atom, a C1-C3 alkyl group, a C1-C3 alkoxy group or a C1-C3 haloalkyl group};

X represents an oxygen atom or a sulfur atom;

10 Q represents a group illustrated by the following formulas of Q1 or Q2



Q1



Q2

{in which  $R^{14}$  represents a hydrogen atom or a C1-C3 alkyl group,  $R^{15}$  represents a hydrogen atom, a C1-C6 alkyl group, a C1-C6 haloalkyl group, a C3-C6 alkenyl group, a C3-C6 haloalkenyl group, a C3-C6 alkynyl group, a C3-C6 haloalkynyl group, a C3-C6 cycloalkyl group, a (C1-C6 alkyl)carbonyl group, a (C1-C6 haloalkyl)carbonyl group, a (C1-C6 alkoxy)carbonyl group, a (C1-C6 haloalkoxy)carbonyl group, a (C3-C6 alkenyloxy)carbonyl group, a (C3-C6 haloalkenyloxy)carbonyl group, a (C3-C6 alkynyloxy)carbonyl group, a (C3-C6 haloalkynyloxy)carbonyl group or a C1-C3 alkylsulfonyl group,  $Z^1$  represents an oxygen atom or a sulfur atom,  $Z^2$  represents an oxygen atom,  $NOR^{16}$  (in which  $R^{16}$  represents a hydrogen atom, a C1-C6 alkyl group, a C1-C6 haloalkyl group, a C3-C6 alkenyl group, a C3-C6 haloalkenyl group, a C3-C6 alkynyl group, a C3-C6 haloalkynyl group or a C3-C6 cycloalkyl group),

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CR<sup>17</sup>R<sup>18</sup> (in which R<sup>17</sup> represents a halogen atom, a C1-C6 alkyl group, a C1-C6 haloalkyl group, a C1-C6 alkoxy group, a C1-C6 haloalkoxy group, a C3-C6 alkenyloxy group, a C3-C6 haloalkenyloxy group, a C3-C6 alkynyloxy group, a C3-C6 haloalkynyloxy group or a C3-C6 cycloalkyloxy group and R<sup>18</sup> represents a hydrogen atom, a halogen atom, a C1-C6 alkyl group or a C1-C6 haloalkyl group) or NNR<sup>19</sup>R<sup>20</sup> (in which R<sup>19</sup> and R<sup>20</sup> independently represent a hydrogen atom, a C1-C6 alkyl group, a C1-C6 haloalkyl group, a C3-C6 alkenyl group, a C3-C6 haloalkenyl group, a C3-C6 alkynyl group or a C3-C6 cycloalkyl group) }].

2. The phenylpyridine compound according to claim 1, wherein X is an oxygen atom.

3. The phenylpyridine compound according to any one of claim 1 or 2, wherein R<sup>6</sup> is a hydrogen atom.

4. The phenylpyridine compound according to any one of claim 1 to 3, wherein Q is Q1, R<sup>14</sup> is a hydrogen atom and Z<sup>1</sup> is an oxygen atom.

5. The phenylpyridine compound according to claim 4, wherein R<sup>15</sup> is a hydrogen atom, a C1-C6 alkyl group, a C1-C6 haloalkyl group, a C3-C6 alkenyl group, a C3-C6 haloalkenyl group, a C3-C6 alkynyl group, a C3-C6 haloalkynyl group or a C3-C6 cycloalkyl group.

6. The phenylpyridine compound according to any one of claim 1 to 3, wherein Q is Q2 and Z<sup>2</sup> is NOR<sup>16</sup> (in which R<sup>16</sup> is a hydrogen atom, a C1-C6 alkyl group, a C1-C6 haloalkyl group, a C3-C6 alkenyl group, a C3-C6 haloalkenyl group, a C3-C6 alkynyl group, a C3-C6

haloalkynyl group or a C3-C6 cycloalkyl group).

7. The phenylpyridine compound according to any one of claim 1 to 6, wherein R<sup>1</sup>, R<sup>4</sup> and R<sup>5</sup> are hydrogen atoms.

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8. The phenylpyridine compound according to any one of claim 1 to 6, wherein R<sup>1</sup>, R<sup>4</sup> and R<sup>5</sup> are hydrogen atoms and R<sup>2</sup> is a hydrogen atom, a halogen atom, a C1-C6 alkyl group, a C2-C6 alkenyl group, a C3-C6 alkynyl group, a C1-C6 alkoxy group, a C3-C6 alkenyloxy group, a C3-C6 alkynyloxy group, a C1-C6 alkylthio group, a C3-C6 cycloalkyl group, a C3-C6 cycloalkoxy group or a cyano group.

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9. The phenylpyridine compound according to any one of claim 1 to 6, wherein R<sup>1</sup>, R<sup>2</sup>, R<sup>4</sup> and R<sup>5</sup> are hydrogen atoms.

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10. The phenylpyridine compound according to any one of claim 1 to 9, wherein each of R<sup>9</sup> and R<sup>10</sup> is a C1-C6 alkoxy group, a C1-C6 haloalkoxy group, a C3-C6 alkenyloxy group, a C3-C6 haloalkenyloxy group, a C3-C6 alkynyloxy group, a C3-C6 haloalkynyloxy group, a C2-C6 cyanoalkyloxy group or a C3-C6 cycloalkoxy group.

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11. The phenylpyridine compound according to any one of claim 1 to 9, wherein each of R<sup>9</sup> and R<sup>10</sup> is a C1-C4 alkoxy group.

12. The phenylpyridine compound according to any one of claim 1 to 9, wherein R<sup>9</sup> and R<sup>10</sup> are methoxy groups.

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13. The phenylpyridine compound according to any one of claim 1 to 12, wherein R<sup>7</sup>, R<sup>8</sup> and R<sup>11</sup> are hydrogen atoms.

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14. The phenylpyridine compound according to any one of claim

1 to 13, wherein  $W^1-W^2=W^3-W^4$  is  $N-CH=CH-CH$ ,  $CH-N=CH-CH$ ,  $CH-CH=N-CH$  or  $CH-CH=CH-N$ .

15. A fungicidal composition comprising the phenylpyridine  
5 compound according to any one of claim 1 to 14 and a carrier.

16. A method for controlling plant diseases comprising applying  
of the phenylpyridine compound according to any one of claim 1  
to 14 for plants or soils.